<u>CLAIMS</u>

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1.		1. A method of programming a welding-type
2	. (2)	system, comprising:
3		storing at least one welding program in a
4		pda;
5		connecting the pda to the welding-type
6	100	system; and
7		downloading the at least one welding program
8 -		to the welding-type system.

- 2. The method of claim 1, wherein storing includes uploading the at least one program, from a second welding-type system.
- 3. The method of claim 1, wherein storing includes e-mailing the at least one program.
- 4. The method of claim 1, wherein connecting includes making a wired connection between the pda and the welding-type system.
- 5. The method of claim 4, wherein connecting includes making an RS232 connection between the pda and the welding-type system.
- 6. The method of claim 1, wherein connecting includes making a wireless connection between the pda and the welding-type system.

1	7. The method of claim 6, wherein connecting
2	includes making an IR connection between the pda and the
3	welding-type system.
1	8. A method of programming a welding-type
2	system, comprising:
3	storing a plurality of welding programs in a
4	pda;
5	connecting the pda to the welding-type
6	system; and
7	selecting at least one of the plurality of
8	programs for downloading;
9	downloading the at least one of the plurality
10	of programs to the welding-type system.
,	
1	9. The method of claim 8 wherein selecting is
2	performed before connecting.
1	10. The method of claim 8 wherein selecting is
2	performed after connecting.
1	11. The method of claim 8, wherein storing
2	includes at least one of uploading the at least one program
3	from a second welding-type system and e-mailing the at leas
4	one program.
1	12. The method of claim 9, wherein connecting
2	includes making at least one of an RS232 connection and an
3	IR connection between the pda and the welding-type system.
1	13. The method of claim 8, wherein the plurality
2	of programs are stored in a single file, and downloading
3	includes sending a portion of the file.

1		14. The method of claim 8, further comprising
2	- 1	editing the at least one of the plurality of programs.
1		15. The method of claim 14, wherein editing is
2		performed before downloading.
1		16. A welding-type system, comprising:
2		a source of welding-type power;
3	8 .	a controller, operatively connected to the
4		source of welding-type power, wherein the controller
5		includes a memory;
6		a memory input, connected to the memory and
7		further connectable to a pda;
8		a downloading routine, operatively connected
9		to the memory input.
1		17. The system of claim 16, further comprising a
2		memory output, connected to the memory and further
3		connectable to the pda.
1		18. The system of claim 16, wherein the memory
2		input includes one of a wired or wireless connection.
1		19. The system of claim 18, wherein the memory
2		input is one of an RS232 connection and an IR connection.
1		20. The system of claim 15, further comprising, a
2		pda connected to the memory input, wherein the pda includes
3		a memory with a weld program stored therein.
1		21. The system of claim 20, wherein the
2	•	downloading routine is stored in the pda.

22. The system of claim 15, wherein the

downloading routine is stored in the controller.

1 2

1	23. A welding-type system, comprising:
2	a source of welding-type power;
3,	a controller, operatively connected to the
4	source of welding-type power, wherein the controller
5	includes a memory and a controller i/o port;
6	a pda, having a memory and a plurality of
7	weld programs stored therein, and further having a pda
8	i/o port connected to the controller i/o port;
9	a weld program selecting routine operatively
10	connected to the pda; and
11	a downloading routine, operatively connected
12	to the pda.
1	24. The system of claim 23, further comprising an
2	uploading routine, operatively connected to the pda.
1	25. The system of claim 24, wherein the i/o ports
2	includes at least one of an RS232 connection and an IR
3	connection.
1	26. The system of claim 22, further comprising a
2	weld program editing routine operatively connected to the
3	pda.
1	27. A welding-type system, comprising:
2	a source of welding-type power;
3	a controller, operatively connected to the
4	source of welding-type power;
5	controller memory means for storing at least
6	one welding program in the controller, connected to the
7	controller;
8	pda memory means for storing at least one
9	welding program in a pda;

10	means for connecting the pda memory means to
11	the controller memory means; and
12	means for downloading the at least one
13	welding program to the welding-type system, connected
14	to the pda memory means for storing.
1	28. The system of claim 27, further comprising,
2	connected to the pda means for storing, at least one of:
3	means for uploading the at least one program from
4	a second welding-type system;
- 5	and means for e-mailing the at least one program.
1	29. An apparatus for programming a welding-
2	type system, comprising:
3	a source of welding-type power;
4	a controller, operatively connected to the
5	source of welding-type power;
6	controller memory means for storing at least
7	one welding program in the controller, connected to the
8	controller;
9	pda memory means for storing a plurality of
10	welding programs in a pda;
11	means for connecting the pda memory means to
12	the controller memory means; and
13	means for the user to select at least one of
14	the plurality of programs for downloading;
15	means for downloading the at least one of the
16	plurality of programs to the controller memory means.
1	30. The apparatus of claim 29, wherein the means
2	for downloading includes means for downloading a portion of
3 ·	a file.

1		31. The apparatus of claim 30, further comprising
2		means for editing the at least one of the plurality of
3		programs, connected to the pda memory means.
1		32. A program for storing weld schedules on
2		a pda, comprising:
3		a storage routine, that stores at least one
4	i 48	weld schedule in a memory on the pda;
	:	a connection routine connects the pda to
5		
6		connect to a welding-type system; and
7.		a download routine that downloads the at
8		least one schedule to the welding-type system.
1		33. The program of claim 32, further comprising
2		an upload routine that allows the pda to upload at least one
3		weld schedule from at least one of a second welding-type
4		system and an e-mail message.
1		34. The program of claim 33, wherein the
2		connection routine includes a wireless protocol.
1		35. A program for storing weld schedule on a
2 .		pda, comprising:
3		a storage routine, that stores a plurality of
4		weld schedules in a memory on the pda;
5 '		a selection routine that allows the user to
6	. J.,	select at least one of the weld schedules for
. 0 7	•	downloading;
8	•	a connection routine connects the pda to a
9		welding-type system; and
		a download routine that downloads the at
10		
11		least one schedule to the welding-type system.
1		36. The program of claim 35 wherein the selection
1		
2		routine is performed before the connection routine.

1		37. The program of claim 36, wherein the
2		selection routine is performed after the connection routine.
1		38. The program of claim 35, further comprising
2		an upload routine that allows the pda to upload at least one
3		weld schedule from at least one of a second welding-type
4		system and an e-mail message.
1		39. The program of claim 38, further comprising
2		an editing routine that allows the user to edit the at least
3		one of the plurality of schedules.
1		40. A method of uploading programs from a
2		welding-type system, comprising:
3		storing a plurality of welding programs in a
4		memory in the welding-type system;
5		connecting a pda to the welding-type system;
6		and
7		selecting at least one of the plurality of
8	• •	programs for uploading;
9		uploading the at least one of the plurality
10		of programs to the pda.
1		41. A method of transferring data to or from
2		a welding-type system, comprising:
3		wirelessly connecting a device to the
4		welding-type system; and
5		transferring a welding program to or from the
6	\$	device from the welding-type system.
1		42. The method of claim 41, further including e-
2		mailing the program to the device, storing the program on
3		the device, and transfering, over the wireless connection,
4	•	the program to the welding-type system.

1,	43. The method of claim 41, wherein wirelessly
2 conne	ecting includes connection between welding-type system
3 and c	one of a pda, laptop computer and desktop computer.
4 ·	44 A wolding type gyatem gempnisin-
4	44. A welding-type system, comprising:
5	a source of welding-type power;
6	a controller, operatively connected to the
7	source of welding-type power, wherein the controller
8	includes a memory and a controller wireless port;
9	a remote computing device, having a memory
10	for storing a plurality of weld programs therein, and
11	further having a remote wireless port connected to the
12	controller wireless port;
13	a weld program selecting routine operatively
14	connected to the device; and
15	a transfer routine, operatively connected to
16	the device.

45. The system of claim 44, further comprising a download routine that allows the device to download at least one weld schedule from the device to the controller, wherein the at least one program is in an e-mail message.